



Creating a Box and Whisker Plot using Excel

How to Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool [Random Sampler](#) to download a sample.X

Reference year: (select year)

Sample size: At least 40 students

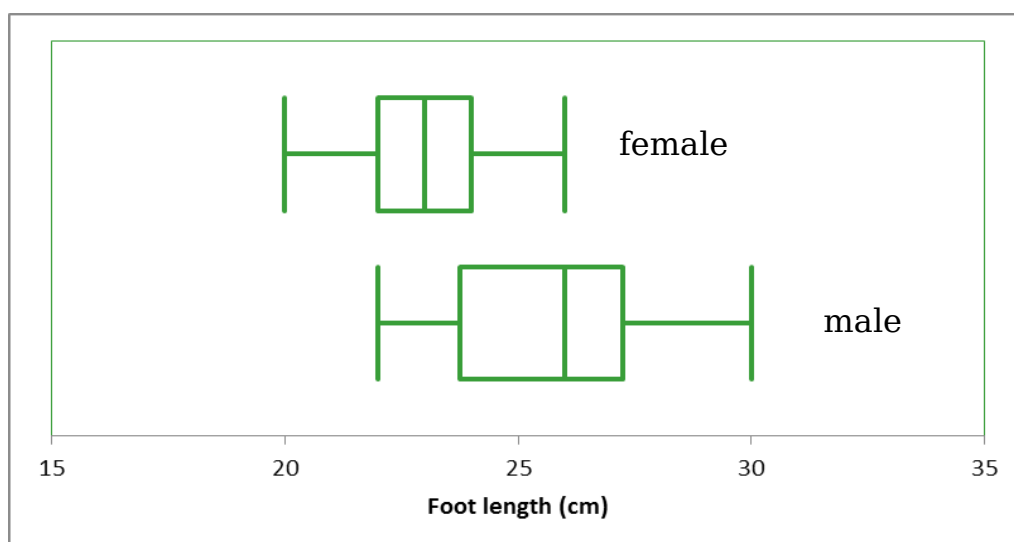
Select questions: Foot lengths

Location: Select location

Year level: (select a range of year levels)

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% entered.

This task builds on skills developed in CaSQ_35A and CaSQ_35B. In CaSQ_35B you would have developed a parallel box and whisker plot using scatter plot in Excel.



Task:

1. Download a random sample of 40 foot lengths in Excel.
Note: You can use all data or sort and use either Male or Female data.
2. Calculate the 5 figure summary statistics for your data.
3. Develop a set of ordered pairs that will allow a box and whisker plot to be drawn with the minimum number of lines.
Note: there are 5 vertical and 4 horizontal lines in a single box and whisker plot. Can you construct a box and whisker using fewer than 9 lines?
4. Comment on the distribution



Extension:

5. What is the minimum number of lines needed to draw the plot? How do you know?